FIG 1

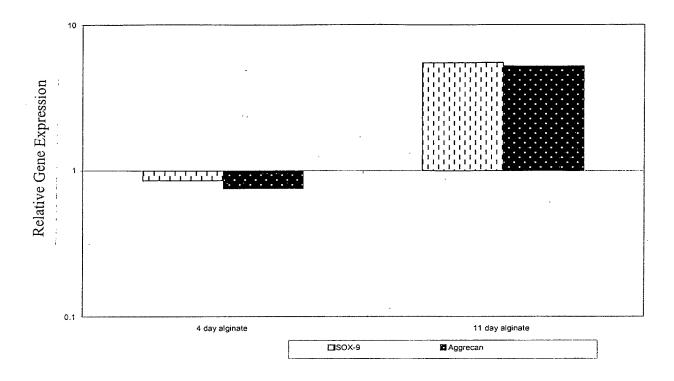
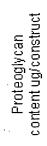
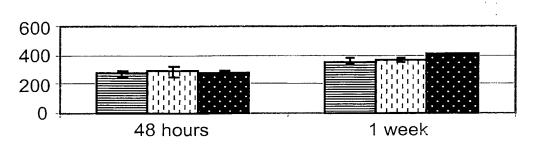


FIG 2

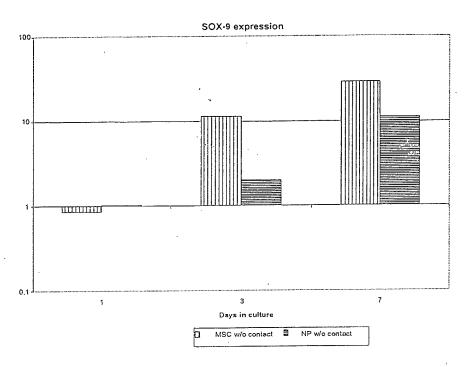


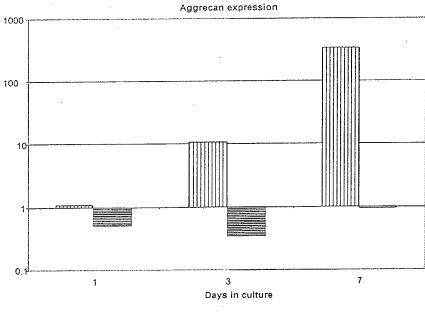


Time in culture

■NP cells ■MSC cells with ascorbate ■MSC no ascorbate

FIG.3





☐ MSC w/o contact ☐ NP w/o contact

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<u>FIG 4</u>

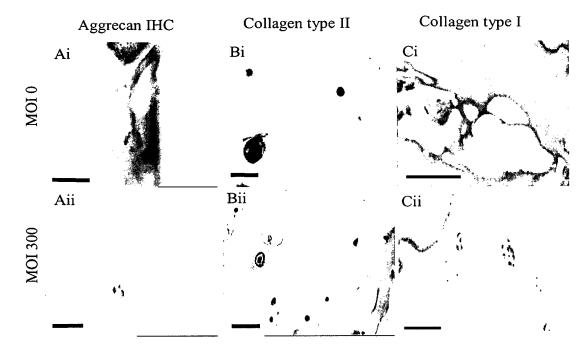
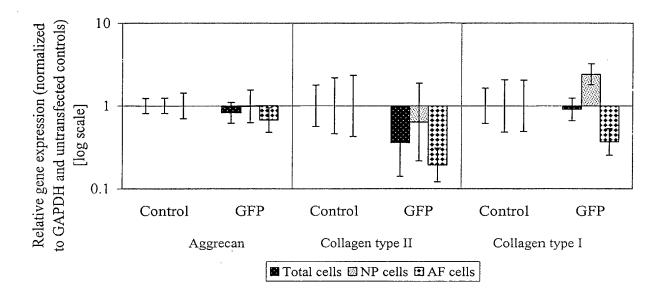
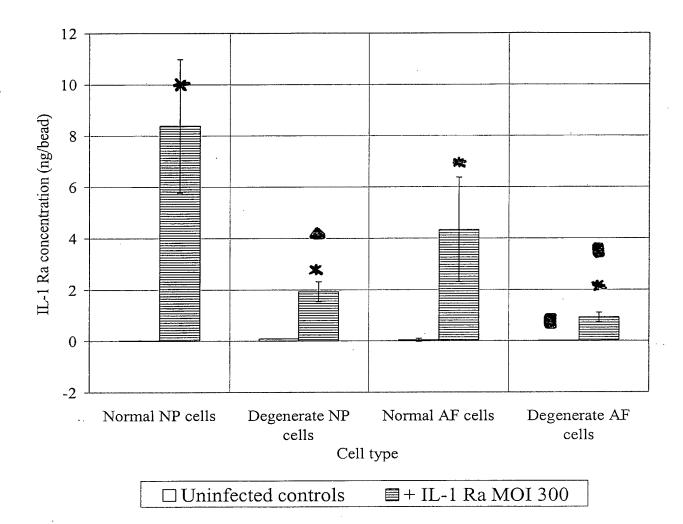


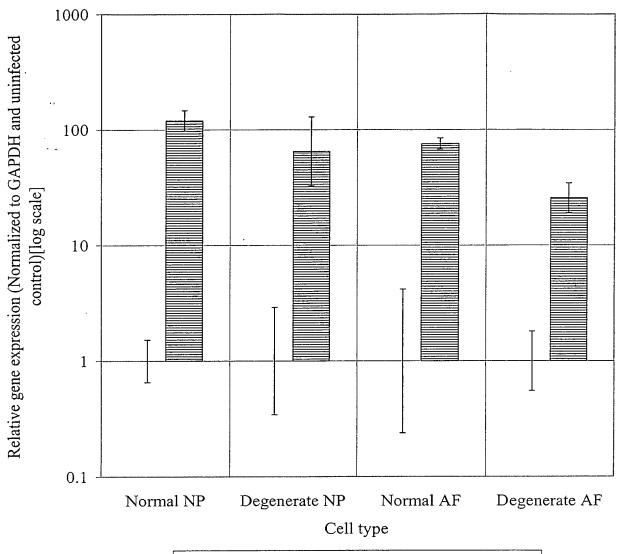
FIG 5



<u>FIG 6</u>



<u>FIG 7</u>

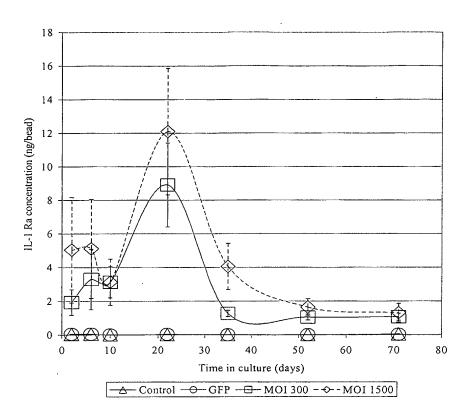


☐ Uninfected 目 Infected with Ad-IL-1Ra MOI 300

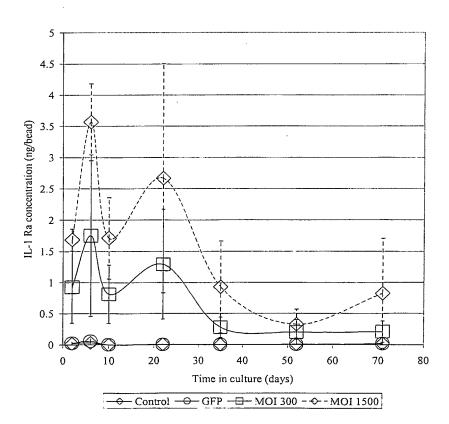
PCT/GB2005/000713

FIG 8

A

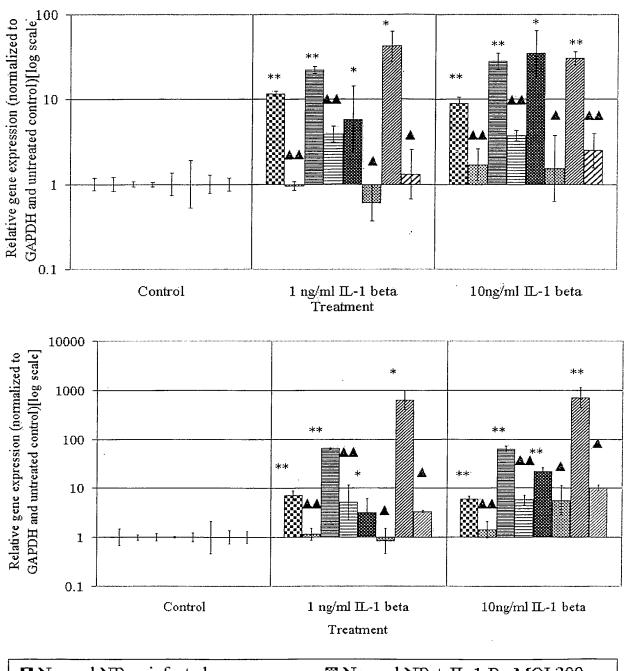


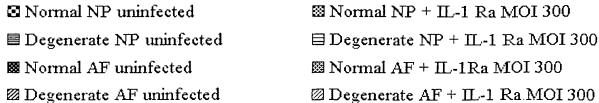
В



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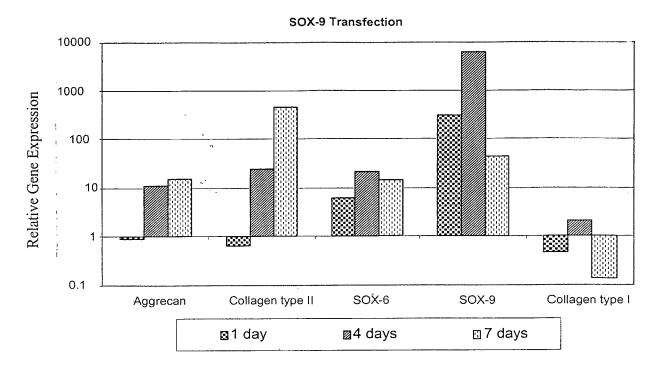
<u>FIG 9</u>





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FIG 10



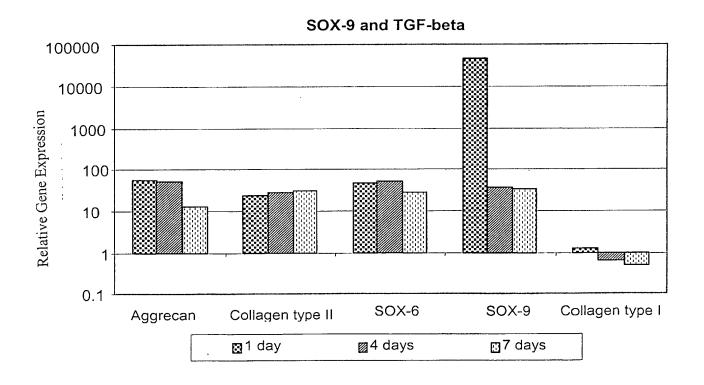


FIG 11

gggtgacgtagtagtgtggcggaagtgtgatgttgcaagtgtggcggaacacatgtaagcgacggatgtggcaaaagtgacgtttttggtgt gcgggaaaactgaataagaggaagtgaaatctgaataattttgtgttactcatagcgcgtaatatttgtctagggccgcggggactttgaccgt ttacgtggagactcgcccaggtgtttttctcaggtgttttccgcgttccgggtcaaagttggcgttttattattatagtcagctgacgtgtagtgtatttatacccggtgagttcctcaagaggccactcttgagtgccagcgagtagagttttctcctccgagccgctccgacaccgggactcgagtgtt ggcccgcctggctgaccgcccaacgacccccgcccattgacgtcaataatgacgtatgttcccatagtaacgccaatagggactttccattg ggtaaatggcccgcctggcattatgcccagtacatgaccttatgggactttcctacttggcagtacatctacgtattagtcatcgctattaccatg gtgatgcggttttggcagtacatcaatgggcgtggatagcggtttgactcacgggggatttccaagtctccaccccattgacgtcaatgggagtgcgtatgggatctgactacaaagacgatgacgacaagggatcctccgaggactccgcgggctcgccctgcccgtcgggctccggctcgg acaccgagaacacgcggccccaggagaacacgttccccaagggcgagcccgatctgaagaaggagagaggaggacaagttcccc gtgtgcatccgcgaggcggtcagccaggtgctcaaaggctacgactggacgctggtgcccatgccggtgcgcgtcaacggctccagcaa gaacaagccgcacgtcaagcggcccatgaacgccttcatggtgtgggcgcaggcggcgcgcaggaagctcgcggaccagtacccgca ggaggcagaggaggccacggagcagacgcacatctcccccaacgccatcttcaaggcgctgcaggccgactcaagcttgccacactcc tectecg geat gag egag t geactecc egg egag eacteg ggg ea at ce agg gee ca ee gae ee ca ee ca ee ca ee ca eac ee ca eac ee ca ee cagacgtgcagccgggcaaggctgacctgaagcgagaggggcgccccttgccagagggggggagacagccccctatcgacttccgcgac gtggacatcggcgagctgagcagcgacgtcatctccaacatcgagaccttcgatgtcaacgagtttgaccagtacctgccgcccaacggc agccgggccagtcccagcgaacgcacatcaagacggagcagctgagccccagccactacagcgagcagcagcagcactcgcccaa caga te gecta cage ce ct tea a cete cae a ctaca gec cete cta ce ege ce a tea ce get cae a grae cae caga ce a cete cae aactocagetectactacagecaeggeaggecaegggeaceggeetetactecaeetteaeetaeatgaaeeeegeteagegeeeatgt acacccccatcgccgacacctctggggtcccttccatcccgcagacccacagcccccagcactgggaacaacccgtctacacacagctca Igitaactigtttattgcagcttataatggttacaaataaagcaatagcatcacaaatttcacaaataaagcatttttttcactgcattctagttgtggt

Fig 11 continued:

ttgtccaaactcatcaatgtatcttatcatgtctggatcatcgatccataacttcgtataatgtatgctatacgaagttatccagatctggttctatag tgtcacctaaatcgtatgtgtatgatacataaggttatgtattaattgtagccgcgttctaacgacaatatgtccatagggcccctacgtcacccg cccgttcccacgccccgcgccacgtcacaaactccacccctcattatcatattggcttcaatccaaaataaggtatattattgatgatggcc ttcttcccttcctttctcgccacgttcgccggctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcaccto gaccecaa aa aa act tg attagggt gat ggt teacgt agt gggc catego cot gat agac ggt ttt tege cott tg acgt tg gag to caeg tt the gas gat the gas gat the gas gat the gat tagget gaetttaatagtggactettgtteeaaactggaacaacactcaaccetateteggtetattettttgatttataagggattttgeegattteggeetattg gttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaatattaacgcttacaatttaggtggcacttttcggggaaatgtgcgc ggaacccctatttgtttatttttctaaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaa gag tat gag tat tcaacatt tccgt g tcgccct tat tccctttt ttgcgg catt ttgcct tcct g ttt ttgctcacccagaa acgct g g tgaaag taaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaa cgttttccaatgatgagcacttttaaagttctgctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatactus and the control of the conat gta actege ctt gategt t g g gaaceg gaget gaat gaag ceataceaa ac gae gageg t gacaceae gat geet gta geaat g geaa t geaat geccact to tge get egg ccct to egg ct gg tt gg tt at tge tgata a a tct gg ag egg tg ag egt gg gt ct egg gt at cat tge ag cact gg egg tg ag egg tggggccagatggtaagcctcccgtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgag at aggt gect cact gatta agc at t ggt a act gt cag acca agt ttact cat at a tact ttag at t gatta a a act tcat tt tta a tta a a agg at ctall the same of the same oaggtgaagatcetttttgataateteatgaceaaaateeettaaegtgagttttegtteeaetgagegteagaeeeegtagaaaagateaaagg acca act ctttttccgaaggtaact ggcttcagcagagcgcagatacca aatact gtccttctagt gtagccgtagt taggccaccact tcaaggagcgcagatacca act gtccttct tagt gtagccgt ag ttaggccaccact tcaaggagcgcagatacca act gtccttct tagt gtaggccgt ag ttaggccaccact tcaaggagcgcagatacca act gtccttct tagt gtaggccgt ag ttaggccaccact tcaaggagcgcagatacca act gtccttct tagt gtaggccgt ag ttaggccaccact tcaaggagcgcagatacca act gtaggccaccact tcaaggagcgcagatacca act gtaggagcagatacca act gtaaactetgtagcaccgcetacatacctegetetgetaateetgttaccagtggetgetgeeagtggegataagtegtgtettaccgggttggact caagacgatagttaccggataaggcgcagcggtcgggctgaacgggggttcgtgcacacagcccagcttggagcgaacgacctacac cgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggtatccggtaagcggcagg gtcgatttttgtgatgctcgtcaggggggggggggcctatggaaaaacgccagcaacgcggcctttttacggttcctggccttttgctggccttt ccgagcgcagcgagtcagtgagcgaggaagcggaagagcgcccaatacgcaaaccgcctctccccgcgcgttggccgattcattaatg caggggccgctgcggc

FIG 12

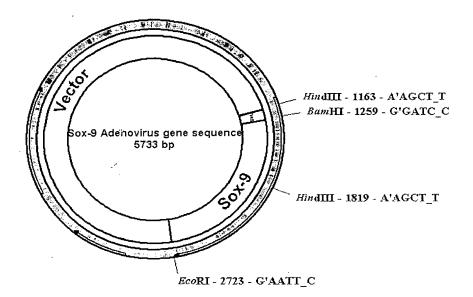


FIG 13

Gene expression in MSSC cells cultured in monolayer for 2 weeks under varying oxygen concentrations

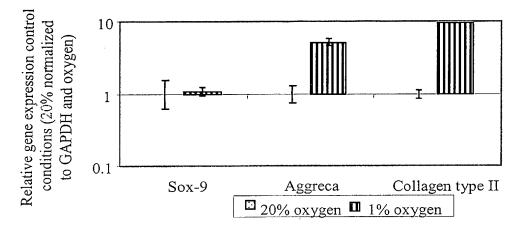


FIG 14

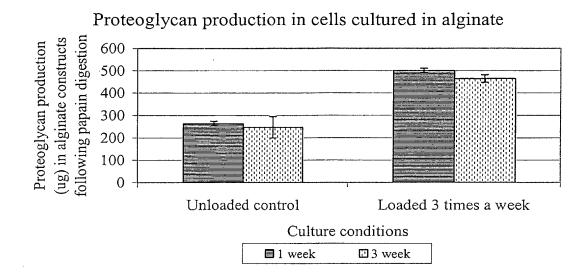
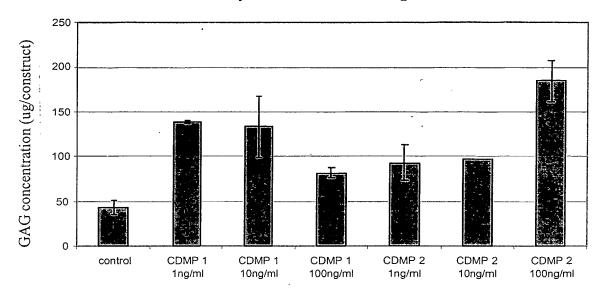


FIG 15

GAG production in MSSC alginate constructs

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Treatment group